

**2019-20 NC Check-In 3**  
**Grade 6 Mathematics**  
**State Item Statistics**

	Content Standard		Item #	Depth of Knowledge	Percent Correct by Item
Expressions and Equations	6.EE.7	Solve real-world and mathematical problems by writing and solving equations of the form: <ul style="list-style-type: none"> <li><math>x + p = q</math> in which <math>p</math>, <math>q</math> and <math>x</math> are all nonnegative rational numbers; and,</li> <li><math>p \cdot x = q</math> for cases in which <math>p</math>, <math>q</math> and <math>x</math> are all nonnegative rational numbers.</li> </ul>	3	Skill/Concept	83.7
			6*	Skill/Concept	76.0
			8*	Skill/Concept	52.1
			9*^	Skill/Concept	37.9
			13^	Skill/Concept	69.6
	6.EE.8	Reason about inequalities by: <ul style="list-style-type: none"> <li>Using substitution to determine whether a given number in a specified set makes an inequality true.</li> <li>Writing an inequality of the form <math>x &gt; c</math> or <math>x &lt; c</math> to represent a constraint or condition in a real-world or mathematical problem.</li> <li>Recognizing that inequalities of the form <math>x &gt; c</math> or <math>x &lt; c</math> have infinitely many solutions.</li> <li>Representing solutions of inequalities on number line diagrams.</li> </ul>	1	Recall	67.1
			2	Recall	33.9
			16^	Recall	48.3
			18^	Recall	50.8
			20^	Recall	52.0
	6.EE.9	Represent and analyze quantitative relationships by: <ul style="list-style-type: none"> <li>Using variables to represent two quantities in a real-world or mathematical context that change in relationship to one another.</li> <li>Analyze the relationship between quantities in different representations (context, equations, tables, and graphs).</li> </ul>	4	Skill/Concept	53.6
			12^	Skill/Concept	63.9
			15^	Skill/Concept	48.5
			19^	Skill/Concept	37.2
			22^	Skill/Concept	52.0
Geometry	6.G.3	Use the coordinate plane to solve real-world and mathematical problems by: <ul style="list-style-type: none"> <li>Drawing polygons in the coordinate plane given coordinates for the vertices.</li> <li>Using coordinates to find the length of a side joining points with the same first coordinate or the same second coordinate.</li> </ul>	5*	Skill/Concept	47.8
			7*	Skill/Concept	57.8
			10*^	Strategic Thinking	23.9
			11*^	Strategic Thinking	42.3
			24^	Recall	68.1
The Number System	6.NS.9	Apply and extend previous understandings of addition and subtraction. <ul style="list-style-type: none"> <li>Describe situations in which opposite quantities combine to make 0.</li> </ul>	14^	Recall	77.4
			17^	Skill/Concept	19.6
			21^	Recall	85.8
			23^	Recall	19.7
			25^	Strategic Thinking	48.8

\* Items marked with an asterisk (\*) are gridded response items.

^ Students had access to a calculator when completing items marked with a ^.

Note: Results from NC Check-Ins should not be compared across interims, districts, or the state.

Each math Grade 6 NC Check-In assesses different content standards.